Process Change Notice #1303191

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PCN Date: 3/19/2013	**Effective Date:** 3/22/2013	
Title: CP2102/9 Datasheet v1.5 Availability and CP2109 Datasheet Errata Notification		
Originator: Shahram Tadayon	**Phone:** 512-428-1698	**Dept:** Marketing
Customer Contact: Kathy Haggar	**Phone:** 512-532-5261	**Dept:** Sales

PCN Type:

☒ **Datasheet**	☐ **Foundry**	☐ **Packing**
☐ **Product Revision**	☐ **Assembly**	☐ **Labeling**
☐ **Discontinuance**	☐ **Test**	☐ **Other**

Last Order Date: Not Applicable

PCN Details

Description of Change:
Version 1.5 of the CP2102/9 datasheet is now available. See appendix for a complete description of the changes.

The CP2102/9 datasheet is available at www.silabs.com. Please contact your Silicon Labs' Sales Representative if you have questions. A list of Silicon Labs' Sales Representatives is available at www.silabs.com.

A data sheet errata for the CP2109 has been issued for USB certification. The CP2102/9 data sheet includes the USB logo which indicates that the device has passed USB certification. This is correct for the CP2102, which is USB certified. The certification for the CP2109 is in progress and will be completed by April 30th, 2013.

Reason for Change:
The CP2102/9 datasheet was updated to include the new CP2109. Other changes include minor updates, additions and corrections to the specifications and text descriptions, as noted in the Appendix.

The CP2109, with a one-time programmable ROM, is a pin-compatible version of the CP2102 with a single exception; The CP2109 requires an additional capacitor between V_{PP} and GND for in-application programming. This capacitor is not required after the CP2109 EPROM has been successfully programmed or if the CP2109 does not need to be customized in system.

A datasheet errata for the CP2109 has been issued for USB certification. The CP2102/9 data sheet includes the USB logo which indicates that the device has passed USB certification. This is correct for the CP2102, which is USB certified. The certification for the CP2109 is in progress and will be completed by April 30th, 2013.

Impact on Form, Fit, Function, Quality, Reliability:
There is no impact on form, fit, function, quality or reliability.

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Product Identification:
The following orderable part numbers are affected:
CP2102-GM
CP2109-A01-GM

The above part number list also applies to part numbers with the R suffix which includes tape and reel part numbers.

Last Date of Unchanged Product: Not Applicable

Qualification Samples:

Not Applicable

Customer Early Acceptance Sign Off:

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: **Date:** _____

Name: _____

Company: _____

Email your early Acceptance approval to: katherine.haggar@silabs.com

Qualification Data:
Not Applicable

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Appendix

DOCUMENT CHANGE LIST

Revision 1.4 to Revision 1.5

- Added CP2109.
- Updated Single-Chip USB to UART Data Transfer bullet on page 1.
- Added CP2109 to Ordering Part Numbers on page 1.
- Updated Section "1. System Overview" on page 4.
- Updated Figure 1.
- Added Section "2. Ordering Information" on page 5.
- Added Symbol columns to Tables in Section "3.Electrical Specifications" on page 6.
- Updated Table 3, added CP2109, Note 1, Note 2.
- Updated Table 4, added CP2109, added Baud Rate.
- Updated Table 5, added CP2109, added V_{DD} Ramp Time.
- Moved Table 6.
- Updated Table 6, added CP2109.
- Added Table 7.
- Added Table 8.
- Updated Table 9, pin 18, Note 1, Note 2.
- Updated Figure 2, added CP2109, pin 18.
- Updated Section "6. USB Function Controller and Transceiver" on page 14, added CP2109.
- Updated Figure 5, added CP2109, Option 5.
- Updated Section "8. Internal Programmable ROM" on page 15, added CP2109.
- Updated Table 13, added CP2109.
- Updated Section "10. Voltage Regulator" on page 17, changed AN144 to AN721.
- Added Section "11. Porting Considerations from CP2102 to CP2109" on page 19.
- Updated Section "12. Relevant Application Notes" on page 21, replaced AN144/AN205 with AN721.

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